

FIG. 2

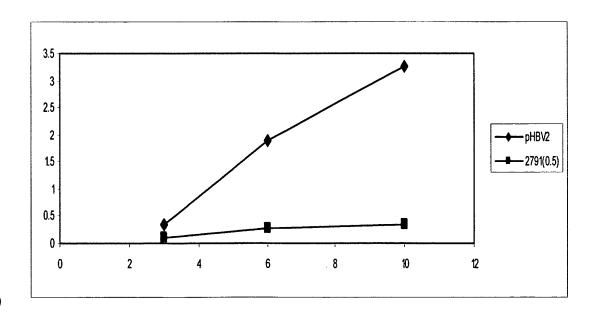
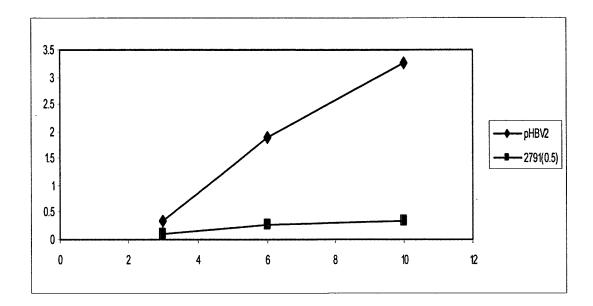


FIG. 3



#### FIG. 4

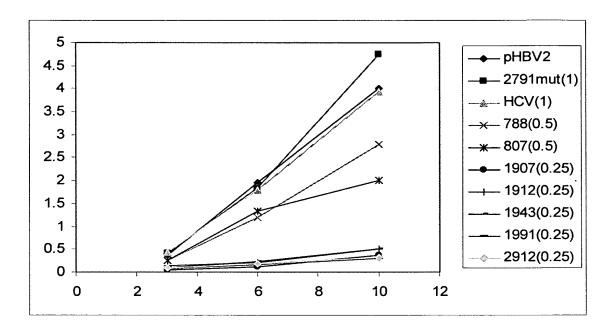


FIG. 5

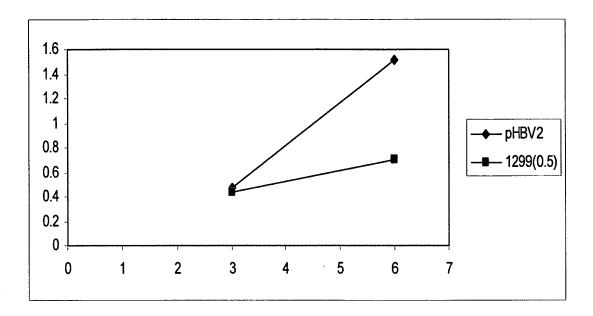


FIG. 6

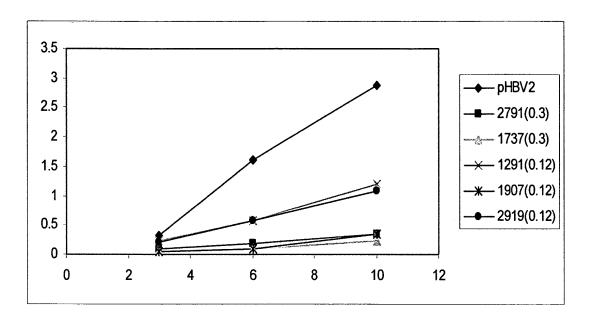


FIG. 7

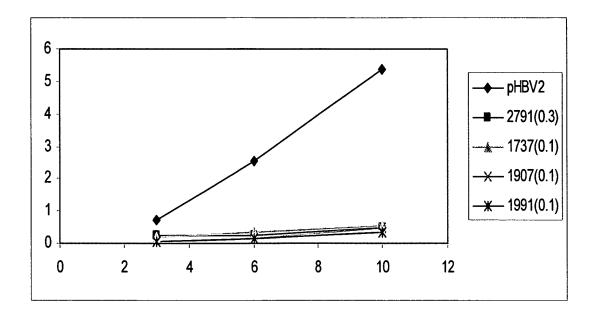
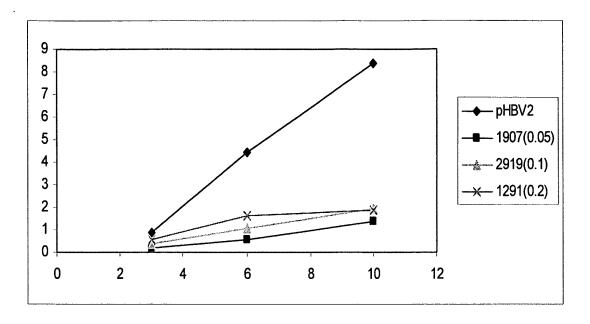


FIG. 8

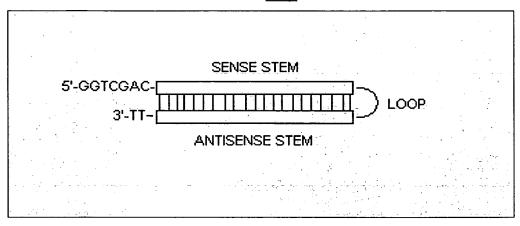


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### FIG. 9

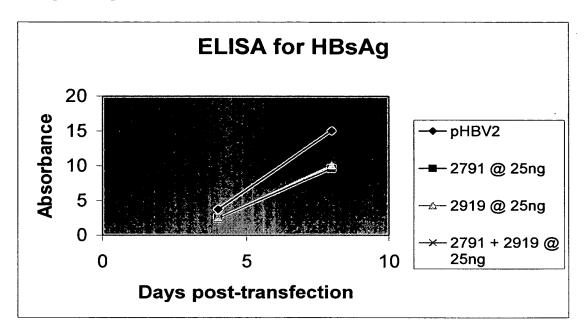
#### **EFFECTIVE HBV-AYW shRNA INSERTS**

5' - GGTCGAC - sense stem - loop - antisense stem -TT - 3'



5

FIG. 10



#### FIG. 11

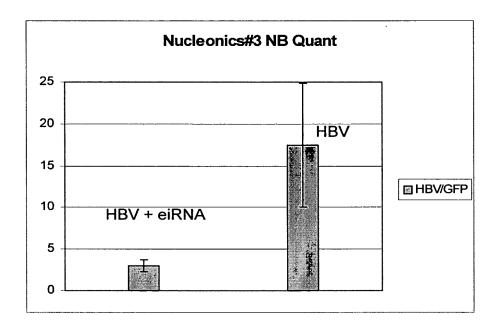
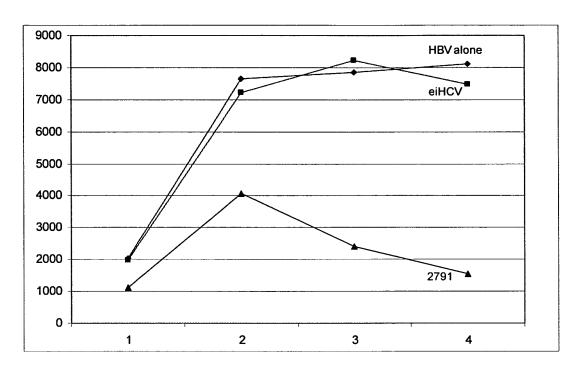
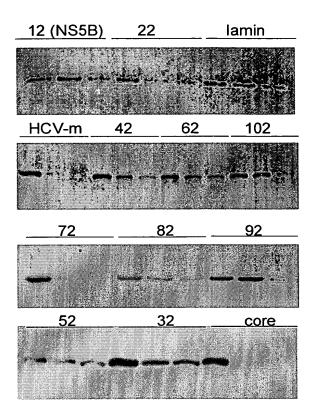


FIG. 12

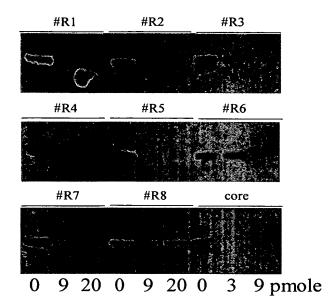


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### FIG. 13



## FIG. 14



5

Position	sequence	length
9510-9531	TGGCTCCATCTTAGCCCTAGTC	22
9510-9533	TGGCTCCATCTTAGCCCTAGTCAC	24
9510-9534	TGGCTCCATCTTAGCCCTAGTCACG	25
9510-9535	TGGCTCCATCTTAGCCCTAGTCACGG	26
9510-9536	TGGCTCCATCTTAGCCCTAGTCACGGC	27
9514-9534	TCCATCTTAGCCCTAGTCACG	21
9514-9535	TCCATCTTAGCCCTAGTCACGG	22
9514-9536	TCCATCTTAGCCCTAGTCACGGC	23
9514-9539	TCCATCTTAGCCCTAGTCACGGCTAG	26
9514-9540	TCCATCTTAGCCCTAGTCACGGCTAGC	27
9514-9542	TCCATCTTAGCCCTAGTCACGGCTAGCTG	29
9517-9539	ATCTTAGCCCTAGTCACGGCTAG	23
9517-9540	ATCTTAGCCCTAGTCACGGCTAGC	24
	ATCTTAGCCCTAGTCACGGCTAGCTG	26
	ATCTTAGCCCTAGTCACGGCTAGCTGTG	28
	TCTTAGCCCTAGTCACGGCTAG	22
	TCTTAGCCCTAGTCACGGCTAGC	23
	TCTTAGCCCTAGTCACGGCTAGCTG	25
	TCTTAGCCCTAGTCACGGCTAGCTGTG	27
	TTAGCCCTAGTCACGGCTAGC	21
	TTAGCCCTAGTCACGGCTAGCTG	23
	TTAGCCCTAGTCACGCTAGCTGTG	25
	TTAGCCCTAGTCACGGCTAGCTGTGAAAG	29
	TAGCCCTAGTCACGGCTAGCTG	22
9521-9544		24
9521-9548		28
	TAGCCCTAGTCACGGCTAGCTGTGAAAGG	29
	AGCCCTAGTCACGGCTAGCTG	21
	AGCCCTAGTCACGGCTAGCTGTG	23
	AGCCCTAGTCACGGCTAGCTGTGAAAG	27
	AGCCCTAGTCACGGCTAGCTGTGAAAGG	28
	TAGTCACGCTAGCTGTGAAAG	22
	TAGTCACGGCTAGCTGTGAAAGG	23
<del></del>	TAGTCACGGCTAGCTGTGAAAGGTC	25
9527-9552		26
9527-9553		27
	TAGTCACGGCTAGCTGTGAAAGGTCCGTG	29
	AGTCACGGCTAGCTGTGAAAG	21
	AGTCACGGCTAGCTGTGAAAGG	22
	AGTCACGGCTAGCTGTGAAAGGTC	24
<del></del>	AGTCACGGCTAGCTGTGAAAGGTCC	25
	AGTCACGGCTAGCTGTGAAAGGTCCG	26
	AGTCACGGCTAGCTGTGAAAGGTCCGTG	28
	TCACGGCTAGCTGTGAAAGGTCCGTG	22
	TCACGGCTAGCTGTGAAAGGTCC	23
	TCACGGCTAGCTGTGAAAGGTCC	24
9530-9555		26
9530-9557		28
9530-9558		29
	TCACGGCTAGCTGTGAAAGGTCCGTGAGC ACGGCTAGCTGTGAAAGGTCC	21
		_+
	ACGGCTAGCTGTGAAAGGTCCG	22
	ACGGCTAGCTGTGAAAGGTCCGTG	24
9532-9557		26
	ACGGCTAGCTGTGAAAGGTCCGTGAGC	27
9532-9559		28
	ACGGCTAGCTGTGAAAGGTCCGTGAGCCG	29
9537-9557	TAGCTGTGAAAGGTCCGTGAG	21
9537-9558		22
9537-9559	TAGCTGTGAAAGGTCCGTGAGCC	23

0537 0560	TAGCTGTGAAAGGTCCGTGAGCCG	24
9537-9561	TAGCTGTGAAAGGTCCGTGAGCCGC	25
9537-9564	TAGCTGTGAAAGGTCCGTGAGCCGCTTG	28
	AGCTGTGAAAGGTCCGTGAGC	21
	AGCTGTGAAAGGTCCGTGAGCC	22
	AGCTGTGAAAGGTCCGTGAGCCG	23
	AGCTGTGAAAGGTCCGTGAGCCGC	24
	AGCTGTGAAAGGTCCGTGAGCCGCTTG	27
	AGCTGTGAAAGGTCCGTGAGCCGCTTGAC	29
9541-9561	TGTGAAAGGTCCGTGAGCCGC	21
0544.0504	TGTGAAAGGTCCGTGAGCCGCTTG	24
	TGTGAAAGGTCCGTGAGCCGCTTGAC	26
	TGTGAAAGGTCCGTGAGCCGCTTGACTG	28
	TGTGAAAGGTCCGTGAGCCGCTTGACTGC	29
	TGAAAGGTCCGTGAGCCGCTTG	22
	TGAAAGGTCCGTGAGCCGCTTGAC	24
	TGAAAGGTCCGTGAGCCGCTTGACTG	26
	TGAAAGGTCCGTGAGCCGCTTGACTGC	27
	TGAAAGGTCCGTGAGCCGCTTGACTGCAG	29
	AAAGGTCCGTGAGCCGCTTGACTGCAG AAAGGTCCGTGAGCCGCTTGAC	22
	AAAGGTCCGTGAGCCGCTTGAC	24
	AAAGGTCCGTGAGCCGCTTGACTGC	25
	AAAGGTCCGTGAGCCGCTTGACTGC	27
	AAAGGTCCGTGAGCCGCTTGACTGCAGAG	29
	AAGGTCCGTGAGCCGCTTGAC	21
	AAGGTCCGTGAGCCGCTTGACTG	23
	AAGGTCCGTGAGCCGCTTGACTGC	24
	AAGGTCCGTGAGCCGCTTGACTGCAG	26
	AAGGTCCGTGAGCCGCTTGACTGCAGAG	28
	AGGTCCGTGAGCCGCTTGACTG	22
05.47.0500	AGGTCCGTGAGCCGCTTGACTGC	23
	AGGTCCGTGAGCCGCTTGACTGCAG	25
	AGGTCCGTGAGCCGCTTGACTGCAGAG	27
9547-9575	AGGTCCGTGAGCCGCTTGACTGCAGAGAG	29
9550-9571	TCCGTGAGCCGCTTGACTGCAG	22
9550-9573	TCCGTGAGCCGCTTGACTGCAGAG	24
9550-9575	TCCGTGAGCCGCTTGACTGCAGAGAG	26
9550-9577	TCCGTGAGCCGCTTGACTGCAGAGAGTG	28
	TCCGTGAGCCGCTTGACTGCAGAGAGTGC	29
9554-9575	TGAGCCGCTTGACTGCAGAGAG	22
	TGAGCCGCTTGACTGCAGAGAGTG	24
	TGAGCCGCTTGACTGCAGAGAGTGC	25
	TGAGCCGCTTGACTGCAGAGAGTGCTG	27
	AGCCGCTTGACTGCAGAGAGTG	22
	AGCCGCTTGACTGCAGAGAGTGC	23
	AGCCGCTTGACTGCAGAGAGTGCTG	25
	AGCCGCTTGACTGCAGAGAGTGCTGATAC	29
	TTGACTGCAGAGAGTGCTGATAC	23
	TTGACTGCAGAGAGTGCTGATACTG	25
	TTGACTGCAGAGAGTGCTGATACTGG	26
	TTGACTGCAGAGAGTGCTGATACTGGC	27
	TTGACTGCAGAGAGTGCTGATACTGGCC	28
	TGACTGCAGAGAGTGCTGATAC	22
	TGACTGCAGAGAGTGCTGATACTG	24
	TGACTGCAGAGAGTGCTGATACTGG	25
	TGACTGCAGAGAGTGCTGATACTGGC	26
	TGACTGCAGAGAGTGCTGATACTGGCC	27
	TGACTGCAGAGAGTGCTGATACTGGCCTC	29
	ACTGCAGAGAGTGCTGATACTG	22
	ACTGCAGAGAGTGCTGATACTGG	23
3000-308/	ACTGCAGAGAGTGCTGATACTGG	

9565-9588	ACTGCAGAGAGTGCTGATACTGGC	24
9565-9589	ACTGCAGAGAGTGCTGATACTGGCC	25
9565-9591	ACTGCAGAGAGTGCTGATACTGGCCTC	27
9565-9593	ACTGCAGAGAGTGCTGATACTGGCCTCTC	29
9567-9587	TGCAGAGAGTGCTGATACTGG	21
9567-9588	TGCAGAGAGTGCTGATACTGGC	22
9567-9589	TGCAGAGAGTGCTGATACTGGCC	23
9567-9591	TGCAGAGAGTGCTGATACTGGCCTC	25
9567-9593	TGCAGAGAGTGCTGATACTGGCCTCTC	27
9567-9595	TGCAGAGAGTGCTGATACTGGCCTCTCTG	29
9570-9591	AGAGAGTGCTGATACTGGCCTC	22
9570-9593	AGAGAGTGCTGATACTGGCCTCTC	24
9570-9595	AGAGAGTGCTGATACTGGCCTCTCTG	26
9570-9596	AGAGAGTGCTGATACTGGCCTCTCTGC	27
9570-9598	AGAGAGTGCTGATACTGGCCTCTCTGCAG	29
9572-9593	AGAGTGCTGATACTGGCCTCTC	22
9572-9595	AGAGTGCTGATACTGGCCTCTCTG	24
9572-9596	AGAGTGCTGATACTGGCCTCTCTGC	25
9572-9598	AGAGTGCTGATACTGGCCTCTCTGCAG	27
9574-9595	AGTGCTGATACTGGCCTCTCTG	22
9574-9596	AGTGCTGATACTGGCCTCTCTGC	23
9574-9598	AGTGCTGATACTGGCCTCTCTGCAG	25
9574-9601	AGTGCTGATACTGGCCTCTCTGCAGATC	28
9576-9596	TGCTGATACTGGCCTCTCTGC	21
9576-9598	TGCTGATACTGGCCTCTCTGCAG	23
9576-9601	TGCTGATACTGGCCTCTCTGCAGATC	26
9576-9604	TGCTGATACTGGCCTCTCTGCAGATCAAG	29
9579-9601	TGATACTGGCCTCTCTGCAGATC	23
9579-9604	TGATACTGGCCTCTCTGCAGATCAAG	26
9581-9601	ATACTGGCCTCTCTGCAGATC	21
9581-9604	ATACTGGCCTCTCTGCAGATCAAG	24
9583-9604	ACTGGCCTCTCTGCAGATCAAG	22

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